

Title (en)

CHIRAL DOPING AGENTS FOR LIQUID CRYSTALS

Publication

EP 0415220 A3 19910918 (DE)

Application

EP 90115897 A 19900820

Priority

CH 316989 A 19890901

Abstract (en)

[origin: US5093027A] Optically active dopants of the formula <IMAGE> I wherein A represents an optically active group selected from 1,1'-binaphthyl-2,2'-diyl, -CHR1-CHR2- or -CH(COOR3)-CH(COOR4)-; Z denotes a group -(CH2)4-, -O(CH2)3- or the trans form of -OCH2-CH=CH-; R1 is hydrogen, methyl, phenyl or cyclohexyl; R2 is methyl, phenyl or cyclohexyl; R3 and R4 denote alkyl; Y stands for -CO- or -CH2-; ring B represents 1,4-phenylene or trans-1,4-cyclohexylene; and R is hydrogen, alkyl, alkoxy or cyano, liquid crystalline mixtures which contain such dopants and their use for optical and electro-optical purposes.

IPC 1-7

C07C 69/78; C09K 19/30; C09K 19/32

IPC 8 full level

C07C 41/01 (2006.01); **C07C 41/16** (2006.01); **C07C 43/115** (2006.01); **C07C 43/168** (2006.01); **C07C 43/205** (2006.01); **C07C 43/21** (2006.01); **C07C 67/08** (2006.01); **C07C 69/708** (2006.01); **C07C 69/757** (2006.01); **C07C 69/773** (2006.01); **C07C 69/94** (2006.01); **C07C 253/30** (2006.01); **C07C 255/46** (2006.01); **C07C 255/54** (2006.01); **C07C 255/57** (2006.01); **C09K 19/20** (2006.01); **C09K 19/30** (2006.01); **C09K 19/32** (2006.01); **C09K 19/42** (2006.01); **C09K 19/46** (2006.01); **C09K 19/54** (2006.01); **G02F 1/13** (2006.01)

CPC (source: EP KR US)

C07C 43/168 (2013.01 - EP US); **C07C 43/21** (2013.01 - EP US); **C07C 69/02** (2013.01 - KR); **C09K 19/3068** (2013.01 - EP US); **C09K 19/322** (2013.01 - EP US); **C07C 2601/14** (2017.04 - EP US); **C09K 2019/323** (2013.01 - EP US)

Citation (search report)

- [A] DE 3633967 A1 19870820 - HOECHST AG [DE]
- [A] DE 3534780 A1 19870402 - HOECHST AG [DE]
- [A] DE 3333677 A1 19850404 - MERCK PATENT GMBH [DE]

Designated contracting state (EPC)

CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 0415220 A2 19910306; EP 0415220 A3 19910918; EP 0415220 B1 19940202; DE 59004491 D1 19940317; HK 206496 A 19961122; JP 2740347 B2 19980415; JP H0393741 A 19910418; KR 100197449 B1 19990615; KR 910006204 A 19910427; US 5093027 A 19920303; US 5411676 A 19950502

DOCDB simple family (application)

EP 90115897 A 19900820; DE 59004491 T 19900820; HK 206496 A 19961114; JP 22682590 A 19900830; KR 900013581 A 19900831; US 30460194 A 19940912; US 57067790 A 19900822